

ABSTRACT OF THE DISCLOSURE

A pneumatic suspension system comprising a pneumatic suspension bellows made from elastomer material, with the bellows forming an air chamber. The bellows has both a static and a dynamic region and two ends. A first end has a fastening zone for securing to a pneumatic suspension bellows. The second end has a fastening zone for securing to a pneumatic suspension piston. The pneumatic suspension piston has a fastening zone and a roll off piston zone. The fastening zone is secured to the pneumatic suspension bellows via a clamping ring. When the pneumatic suspension bellows is pressurized, the dynamic region undergoes a change in diameter so as to form a rolling fold as the bellows is being loaded and relieved.